

A METHOD AND DEVICE FOR THE GENERATION AND APPLICATION OF ANISOTROPIC ELASTIC PARAMETERS

ABSTRACT

A method is disclosed for the generation and application of anisotropic elastic parameters. Anisotropic elastic parameters are generated such that, for selected seismic wave and anisotropy types, an approximation to the anisotropic modeling of seismic amplitudes is obtained by the equivalent isotropic modeling with the anisotropic elastic parameters. In seismic modeling, wavelet estimation, seismic interpretation, inversion and the interpretation and analysis of inversion results anisotropy are handled with isotropic methods, when earth elastic parameters utilized in these methods are replaced by the anisotropic elastic parameters.